

THE UNIVERSION OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Company

DETERMS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TRUE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, LIERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY SPARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE COLD TO SACLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RUNGST, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE UTPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'4440685'

In Jestimonn Marrest, I have hereunto set my hand and caused the seal of the Hunt Huristy Frotestion Office to be affixed at the City of Washington, D.C. this twenty-fifth day of February, in the year two thousand and eight.

Atlast:

Derze

Commissioner Plant Variety Protection Office Agricultural Marketing Service Jes 7: Schafer

REPRODUCE LOCALLY. Include form number and de	ste on all reproduc	ations		**************************************		Form Approved - OMB No. 0581-0055		
U.S. DEPARTMEN AGRICULTURAL N	VICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.						
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)				Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1. NAME OF OWNER 2.				EMPORARY DESIGNATION OR	3. VA	RIETY NAME		
Monsanto Company				XPERIMENTAL NAME		4440685		
4. ADDRESS (Street and No., or R.F.D. No., City, S	tate, and ZIP Cod	fe, and Country)	5. TI	ELEPHONE (include area code)		FOR OFFICIAL USE ONLY		
800 North Lindbergh Blvd				314.694.2718	PVPO NUMBER			
E2SD St. Louis, MO 63167				AX (include area code) 314.694.4888	<u> </u>	#200700251		
7. IF THE OWNER AMED IS NOT A "PERSON", GIV ORGANIZATION (corporation, partnership, associ		8. IF INCORPORATED, GIVE	9. D.	ATE OF INCORPORATION	1	11 1 0 - 0 0 0		
Limited Liability Company	i i				/	March 27, 2007		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will rec Susannah Cooper 800 North Lindbergh Blvd E2SD St. Louis, MO 63167				isted will receive all papers)	FEES RECEIVE D	\$ 4,382.00 DATE 3/27/07 CERTIFICATION FEE: \$ 768.00 DATE 1-9-2008		
11. TELEPHONE (Include area code)	12. FAX (Include			13. E-MAIL				
314.694.2718 14. CROP KIND (Common Name)	314 16. FAMILYNA	1.694.2399		susannah.g.cooper@				
Soybean				18. DOES THE VARIETY CONTA □ YES □ NO	MIN AINY I	HANSGENES? (OPTIONAL)		
15. GENUS AND SPECIES NAME OF CROP		paceae (Leguminosae) JETY A FIRST GENERATION HYBRID			SSIGNED	USDA-APHIS REFERENCE NUMBER FOR THE		
Glycine max (L.) Merr.	_	M NO				DEREGULATE THE GENETICALLY MODIFIED PLANT FOR		
 CHECK APRROPRIATE BOX FOR EACH ATTAC (Follow instructions on reverse) 	CHMENT SUBMIT	TED	2	20. DOES THE OWNER SPECIF OF CERTIFIED SEED? (See	Y THAT S Section 1	EED OF THIS VARIETY BE SOLD AS A CLASS 33(a) of the Plant Variety Protection Act)		
a. 🗹 Exhibit A. Origin and Breeding History o	f the Variety			☐ YES (If "yes", answer items 21 and 22 below) ☑ NO (If "no", go to item 23)				
b. 🗹 Exhibit B. Statement of Distinctness			2			EED OF THIS VARIETY BE LIMITED AS TO		
c. 🗹 Exhibit C. Objective Description of Varie	ty			☐ YES ☐ NO				
d.	ariety (Optional)			IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED				
e. 🗹 Exhibit E. Statement of the Basis of the	Owner's Ownershi	ip	2		Y THAT S	EED OF THIS VARIETY BE LISITED AS TO		
f. 🗹 Exhibit F. Declaration Regarding Deposi	t			☐ YES ☐ NO				
g. Voucher Sample (3,000 viable untreated that tissue culture will be deposited and n				IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
g. Filing and Examination Fee (\$4,382), man States" (Mail to the Plant Variety Protection		easurer of the United		FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)				
 HAS THE VARIETY (INCLUDING ANY HARVEST FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES? 	ED MATERIAL) C OF, TRANSFERR	OR A HYBRID PRODUCED ED, OR USED IN THE U.S. OR	2	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?				
NY NO YES X NO			- 1	☑ YES □ NO				
IF YES, YOU MUST PROVIDE THE DATE OF FILE FOR EACH COUNTRY AND THE CIRCUMSTAN	RST SAVE, DISP CES. <i>(Piease us</i>	OSITION, TRANSFER, OR USE e space indicated on reverse.)		IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNEE REFERENCE NUMBER. (Please use space indicated on reverse.)				
 The owners declare that a viable sample of basic for a tuber propagated variety a tissue culture will 	seed of the variety be deposited in	y has been furnished with application a a public repository and maintained for	and will b the dura	pe replenished upon request in action of the certificate.	cordance	with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this entitled to protection under the provisions of Section	1 42 of the Plant V	/ariety Protection Act.		ieve(s) that the variety is new, dist	inct, unifo	rm, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representation	n nerein can jeop							
IGNATURE OF OWNER SIGN				RE OF OWNER				
AME (Please print or type) NAME				ease print or type)		77.742		
Susannah Cooper								
APACITY OR TITLE	DATE	CA	4PACITÝ	OR TITLE	DATE			
Patent Scientist	16-	-Mar-07						

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291 General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#200700251

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM 19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative vatietied as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transfereed, or used in the U.S. or other countries.)

This variety was first sold in the US in April-2007

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).) US Patent Pending. Patent Application No. 11626298

eduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A Origin and Breeding History

Parentage: (A2553/AG2903)/(A2553/AG2903)

Table 1: Breeding History

Generation	Year	Description			
Cross	Nov-2000	The cross was made at Isabella, Puerto Rico.			
F_1	Apr-2001	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.			
F ₂	Jul-2001	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.			
F ₃	Nov-2001	F ₃ derived F ₄ were grown at Chile in progeny rows and the variety 4440685 was selected based on the agronomic characteristics, including, but not limited to, general plant health, lodging, early emergence, and general disease resistance, including PRR, SCN, BSR, SDS, stem canker, etc.			
F_4	2002	Yield test were conducted at 6 locations			
F_5	2003	Yield tests were conducted at 13 locations.			

Variety 4440685 was observed to be uniform and stable for the characteristics described within this application based on our observations since Nov-2001 and, henceforth, to present. No variants were observed during this time.

Variety 4440685 has continued to be grown in yield tests for comparison against other varieties to determine how it would be used in our marketing program (Table 2).

Table 2: Yield trials

	Number of				
Year	Locations				
2004	4				
2005	35				

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Exhibit B Statement of Distinctness of

4440685

To our knowledge, the soybean variety that most resembles 4440685 is AG2903. 4440685 and AG2903 differ in the following trait(s):

Trait	4440685	AG2903
Pubescence color	Grey	Tan
Hilum color	Imperfect Black	Black
Phytophthora root rot resistance allele	Rsp1-k	Rsp1-c

REPRODUCE LOCALLY, Include form number and date on all reproductions

Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S) TEMPORARY OR EXPERIMENTAL DESIGNATION **VARIETY NAME** Monsanto Company DBN2804B0R:0040 4440685 ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) EOR OFFICIAL USE ONLY Attn: Susannah Cooper 800 North Lindbergh Blvd. #20070025**1** Mail Zone: E2\$D St. Louis, MO 63167 PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes thd varietal character of this variety in the spaces below. Place a zero in the first box (e.g., 0 9 9 or | 0 | 9) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society of any recognized color standard may be used to determine plant colors; designate system used _ all questions for your variety; lack of response may delay progress of your application. A. MORPHOLOGY: Seed Shape: $2 \mid 1 = Spherical$ 2 = Spherical-Flattened (L/W, L/T, and T/W ratios ≤1.2) (L/W ratios > 1.2; L/T ratios \leq 1.2) 3 = Elongate 4 = Elongate-Flattened (L/W ratios > 1.2; T/W ratios ≤1.2) (L/T ratios ≥1.2; L/W ratios ≥ 1.2) Seed Coat Color: 1 = Yellow 2 = Green3 = Brown4 = Black 5 = Other (Please specify) Seed Coat Luster: 1 = Dull2 = ShinySeed Size: grams/100 seeds (rounded to the nearest decimal (00.0)) 16.4

3 = Brown

4 = Gray

5 = Imperfect Black

6 = Black

2 = Yellow

7 = Other (Please specify)

Hilum Color:

A. MORPHOLOGY: (continued)

Cotyledon Color:

1 = Yellow

2 = Green

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Seed Protein Peroxidase Activity:

0 1 = Low

2 = High

Hypocotyl Color:

3 1 = Green

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons

3 = Light Purple below Cotyledons ('Woodworth' or 'Tracy') ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

5

1 = 000

2 = 00

3 = 0

4 = 1

5 = 11

6 = III11 = VIII

7 = IV12 = 1

V = 813 = X 9 = VI14 = XI 10 = VII15 = XII

Maturity Subgroup:

Please enter a value from 0-9

B. DISEASE REACTIONS: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- Brown Spot (Septoria glycines Hemmi)
- Frogeye Leaf Spot (Cercospora sojina Hara)
- race 1
- race 3
- race 5
- - race 7

- race 2
- race 4
- race 6
- - Important: Any other races tested (Please specify)

B. DISEASE REACTIONS: (continued)

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					7		Een veef B
	0 Target Spo	t (<i>Corynespora d</i>	<i>cassiicola</i> (Berk. & C	urt.) Wei)			
	0 Downy Mile	lew (<i>Peronspora</i>	a trifoliorum var. man	<i>churica</i> (Naum.) :	Syd. Ex Gäum)	•	
	O Powdery M	ildew (<i>Microsph</i>	a <i>era diffusa</i> Cke. & F	Pk.)			
	2 Brown Sten	n Rot (<i>Phialophd</i>	ora gregata (Allingtor	n & Chamberlain)	W. Gams.)		
*	O Stem Cank	er (<i>Diaporthe ph</i>	aseolorum (Cke. & E	Ell.) Sacc. var. ca	ulivora Athow & Ca	aldwell)	
*	0 Pod and Sto	em Blight (<i>Diapo</i>	orthe phaseolorum (C	ke. & Ell.) (Sacc.	. var. <i>sojae</i> (Lehma	an) Wehm.)	
	O Purple See	d Stain (<i>Cercos</i> լ	oora kikuchii (T. Mats	su. & Tomoyasu)	Gardener)		
ļ	$\frac{0}{1}$ Rhizoctonia	ι Root Rot (<i>Rhiz</i>	octonia solani Kühn)				
	$\frac{0}{1}$ Asian Soyb	ean Rust (<i>Phak</i> o	ospora pachyrhizi Sy	dw. (a.k.a. <i>Phako</i>	spora pachyrhizia	Sydw.))	
į	0 Other rust (i	Please specify) ₋					
Spec	cify the gene(s)	coding for react	tion to Phytophthora	Root Rot.			
_	0 Rps1 (Williams)	0 Rps1-c (Arksoy)	2 <i>Rps1-k</i> (Kingwa)	0 <i>Rps3-b</i> (Pl 172.90	0 <i>Rps5</i> 01) (PI 91.16	0 Rps? (Nezumisaya	, OX939, OX940
Į	0 <i>Rps1-a</i> (Mukden)	0 <i>Rps1-d</i> (Pl 103.0	0 <i>Rps2</i> 991) (CNS)	0 <i>Rps3-c</i> (Pl 340.04	0 <i>Rps6</i> 46) (Altona)		
[0 <i>Rps1-b</i> (Sanga)	0 <i>Rps1-e</i> (Pl 172.9	007) (PI 171.442	0 <i>Rps4</i> 2) (Pl 86.050	O) Rps7 (Harosoy)		
		_					
hyte' —		Rot (<i>Phytophtho</i>	ra sojae (Kaufmann	& Gerdemann))			
0	=	0 race 9	o race 17	0 race 25	0 race 32	o race 39	
0	╡ _	0 race 10	0 race 18	0 race 26	0 race 33	0 race 40	
0	=	0 race 11	0 race 19	0 race 27	0 race 34	0 race 41	
0	-	0 race 12	0 race 20	0 race 28	0 race 35	0 race 42	
0	f .	0 race 14	0 race 21	0 race 29	0 race 36	0 race 43	
10	₫	0 race 14	0 race 22	0 race 30	0 race 35	0 race 44	
0	=	0 race 15	0 race 23	0 race 31	0 race 38	0 race 45	
[0	race 8	0 race 16	0 race 24	important: /	Any other races te	sted (Please specify)	
0	Bud Blight (T	obacco Ringspo	ot Virus)				
0	Yellow Mosa	ic (Bean Yellow	Mosaic Virus)				
0	j	aic (Cowpea Ch	lorotic Virus)				
0	Pod Mottle (E	Bean Pod Mottle	Virus)				
0	Seed Mottle ((Soybean Mosai	c Virus)				
ema	atode						
oybe	ean Cyst Nema	tode (<i>Heterodei</i>	a glycines Ichinohe)				
0	race 1	race 4	race 9				
0	race 2	race 5					
3	race 3	╡ ⊨		ther races tested	(Please specify) _		
$\overline{}$	l <u> </u>	ㅡ			(aaaa apaa) _		

B.	DI	SEASE REACTIONS: (continued) #200700251								
	0	Lance Nematode (Hoplolaimus colxmbus Sher)								
	0	Southern Root Knot Nematode (Meliodogyne incognita (Kofoid & White) Chitwood)								
	0	Northern Root Knot Nematode (Meliodogyne hapla Chitwood)								
	0									
	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)								
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)								
	$\overline{\square}$	Important: Other Nematodes tested (Please specify)								
	LI									
C.	PH	YSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant								
	0	Iron Chlorosis on Calcareous Soil								
	0	Phosphorus Important: Other (Please specify)								
	0	Boron								
	0	Aluminum								
	0	Salt								
	0	Drought								
'										
D . I	INS	ECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant								
ı										
.		Mexican Bean Beetle (<i>Epilachna varivestis</i> Mulsant)								
]		Soybean Aphid (<i>Aphis glycines</i> Matsamura)								
[_	Potato Leaf Hopper (<i>Empoasca fabae</i> (Harris))								
į		Important: Other (Please specify)								
Ε.	HE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant								
ſ	0	Metribuzin								
Ī	0	Bentazone								
j	0	Sulfonylurea								
* [Glyphosate								
İ		Glufosinate								
ļ	_	Pendimethalin								
ļ	=	Important: Other (Please specify)								
L		miportain outer (1 loads specify)								

٠.				
	TD/			OSITION
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Has the development of the subject variety included the insertion of genetic material from an organism, other than a soybean, or, the removal of genetic material from the application variety? If yes, please complete the following information requests*. Use additional pages if necessary. 1. Please state the vector's name: 2. Please state the vector components: 3. Please describe the genetic material successfully transferred into the subject variety: 4. Please describe the insertion protocol: * A literature citation(s) explaining the your information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney U-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								
Cited Most Similar Variety Year/Location 1		:					-	
Year/Location 2			:		:			

I. COMMENTS:

#200700251

Exhibit D Additional Description of Invention

4440685

4440685 is a(n) late maturity group II variety with resistance to Roundup Ready® herbicide. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, such as resistance to brown stem rot. In tests, it has beaten AG2703 by 112% overall in yield, winning 30 of 36 locations. It is adapted to late maturity group II growing areas.

REPRODUCE LOCALLY. Include form number and edition date on a	all reproductions. F	ORM APPROVED-OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
	OR EXPERIMENTAL NUMBER	3. VARIETY NAIVIE		
Monsanto Company	DBN2804B0R:0040	4440685		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)		
800 North Lindbergh	314.694.2718	314.694.2399		
E2SD				
St. Louis, MO 63167	7. PVPO NUMBER # 2 0 (700251		
8. Does the applicant own all rights to the variety? Mark an "X" in t	he appropriate block. If no, please expla	in. XYES NO		
9. Is the applicant (individual or company) a U.S. national or a U.S.	based company? If no, give name of co	ountry. X YES XO		
10. Is the applicant the original owner?	NO If no, please answer one	of the following:		
a. If the original rights to variety were owned by individual(s), is YES b. If the original rights to variety were owned by a company(ies YES 11. Additional Explanation on ownership (Trace ownership from original from origi	NO If no, give name of count s), is (are) the original owner(s) a U.S. ba	ry sed company? y		
	·			
1.				
PLEASE NOTE:				
Plant variety protection can only be afforded to the owners (not licen	nsees) who meet the following criteria:			
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	person must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or es.		
If the rights to the variety are owner by the company which employnationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who definitions.	irected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering a				
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a marital or family status, political beliefs, parental status, or protected genetic information. (It communication of program information (Braille, large print, audiotape, etc.) should contact U	activities on the basis of race, color, national origin, ge	nder, religion, age, disability, sexual orientation,		

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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REPRODUCE LOCALLY. Include form number and date on all reproductions

Form Approved OMB NO 0581-0059

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

DECENTATION REGALIDING DEPOSIT						
NAME OF OWNER (S) Monsanto Company	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 800 N Lindbergh Blvd, E2SD	TEMPORARY OR EXPERIMENTAL DESIGNATION DBN2804B0R:0040				
St. Louis, MO 63167		VARIETY NAME 4440685				
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	HOROFECIALUSEONLY				
Susannah Cooper	800 N Lindbergh Blvd, E2SD St. Louis, MO 63167	#2 000700251				

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished at needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Date